

Opportunities in Health Services

Ever want to comfort a very sick child?

Or do surgery via computer?

Or test your own DNA?

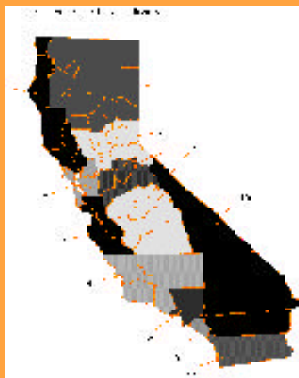


Come join us. We in health services do many interesting things.

We research the functions of your brain, test your heart, cure your feet. We are there when your children first breathe, when their hearing or speech patterns need fixing, when their overbite needs adjusting. We help you monitor your blood pressure and your brain waves. We help you read the directions on the medication we produce and prescribe and present to you. We teach you how to eat right, exercise, and help you sleep well.



assistants • Nurse Practitioners • Physical Therapist Assistants • Occupational Assistants • Speech-Language Pathologists and Audiologists • Paramedical Technicians • Lab Technologists • Health Information Management • Administration • Emergency Medical Technicians • Family Practitioner • Paramedical Technicians • Dietitians and Nutritionists • Dietetic Technicians • Gynecologist • Respiratory Therapist • Medical and Clinical Laboratory Technologists • Dental Hygienists • Social Workers - Medical and Psychiatric • Occupational Therapists • Physical Therapists • Speech - Language Pathologists and Audiologists • Public Health Dentists • Nurse • Anesthetist • Electroneurodiagnostic Technologists • Cardiology Technologists • Electrocardiograph Technicians and Technologists • Surgical Technicians • Health Care Workers • Psychiatric Aides • Physical Therapy Assistants • Physical Therapy Aides • Pharmacy Aides • Health Service Workers • Personal and Home Care Aides • Phlebotomists • Medical Transcriber • Massage Therapists • Pharmacy Assistants • Entomologist • Ophthalmic Laboratory and Frame Technician • MRI Technologist • Operative Technologist • Hospice Administrator • Operating Room Technician • Radiologic Technologist • Physiotherapists • Physicians' Assistants • Medical Laboratory Technicians • Occupational Therapists • Physical Therapists • Nurse • Surgeon • Nurses Aide • Biotechnology Technologists • Surgical Technicians • MRI Technician • Radiologic Technologist • General Practitioner • Immunohematologist • Occupational Therapists • Health Care Workers • Radiologists • Registered Nurses • Emergency Medical Technicians • Respiratory Therapists • Physical Therapists • Radiologic Technologists • Electrocardiograph Technicians • Medical Aides • Pharmacy Assistants • Entomologists • Paramedical Technicians • Geneticist • Infertility Specialist • Researcher • Immunohematologist • Therapist / Assistants • Occupational Therapists • Physician Assistants • Lab Technicians • Opticians / Dispensing Opticians • Services Managers • Dermatologists • Audiologists • Public Health Technologists • Electrocardiograph Technicians • Physical Therapy Aides • Physical Therapy Assistants • Social Work Coordinators • Ophthalmic Technicians • Audiologist • Orthodontist • Radiologic Technologist • Holter Scanning Technician • Medical Records Specialist • Medical Records • Registered Nurses • Pharmacists • Technicians • Family Practice Technicians • Radiologic Technologist • Physiotherapist • Podiatrist • Art Therapist • Cardiology Technologist • Geological Scientists • Licensed Vocational Nurses • Dental Assistants • Medical Assistants • Substance Abuse Counselors • Physical Therapist • Audiologist • Nuclear Medicine Technicians • Operating Room Technician • Nurse Practitioners • Physician Assistants • Pharmacists • Pharmacists • Orientation Therapists • Periodontist • Radiologic Technologists • Medical Physicist • Home Health Aides • Social Work Coordinators • Ophthalmic Technicians • Ophthalmologist • Entomologist • Infertility Specialist • Nurse Practitioner / Assistants • Occupational Therapist / Assistants • Academic Information Management • Ophthalmologist • Ultrasound Technologist • Physiotherapist • Podiatrist • Art Therapist • Cardiology Technologist • Geological Scientists



About this Publication: This is one of a series of publications developed to aid students and their guidance counselors with career decisions. The current series explores five industries: Health Services; Arts, Media, and Entertainment; Hospitality, Tourism, and Recreation; Information Technology; and Manufacturing.

The series is developed by the Employment Development Department's (EDD) Labor Market Information Division (LMID) California Cooperative Occupational Information System (CCOIS) for California's School-to-Career (STC) system.

The California STC Interagency Partners are: the California Department of Education, the California Community Colleges, and EDD.

For each industry, there is a statewide report and a report for each of the twelve California STC regions in order to provide information unique to the different areas. The twelve STC regions are:

- Region 1: Del Norte, Humboldt, Lake, Mendocino, and Sonoma Counties
- Region 2: Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama, and Trinity Counties
- Region 3: Alpine, Colusa, El Dorado, Nevada, Placer, Sacramento, Sierra, Sutter, Yolo, and Yuba Counties
- Region 4: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Solano Counties
- Region 5: Monterey, San Benito, Santa Clara, and Santa Cruz Counties
- Region 6: Amador, Calaveras, San Joaquin, Stanislaus, and Tuolumne Counties
- Region 7: Fresno, Kings, Madera, Mariposa, Merced, and Tulare Counties
- Region 8A: Los Angeles County
- Region 8B: Kern, San Luis Obispo, Santa Barbara, and Ventura Counties
- Region 9A: Imperial and San Diego Counties
- Region 9B: Orange County
- Region 10: Inyo, Mono, Riverside, and San Bernardino Counties

For more information on the California Career Opportunities publications, call (916) 262-2162.

Physical Therapists • Speech - Language Pathologists and Audiologists • Public Health Dentist • Music Therapist • Chiropractor • Registered Nurses • Licensed Vocational Nurses • Electrocardiograph Technicians and Technologists • Surgical Technicians • Nurse • Midwife • Psychiatric Technicians • Dental Assistants • Medical Aides • Pharmacy Aides • Health Service Workers • Personal and Home Care Aides • Dental Laboratory Technicians • Biotechnologists • Substance Abuse Counselors • Entomologist • Ophthalmic Laboratory and Frame Technician • MRI Technician • Nuclear Medicine Technologist • Pediatrician • Physical Therapist • Audiologist • Infertility Specialist • General Practitioner • Medical Insurance Clerk • Medical Office Secretary • Holter Scanning Technician • Nuclear Medicine Technologist

Statewide

Opportunities in Health Services



One common thread binds us all — we care about wellness, fitness, and the wonders of the human organism.

Some of us have studied and trained for many years to unravel its mysteries. Others have taken jobs that gave an opportunity to experience life in health services first hand, before seeking more training and education.

We all have opportunities that are a far cry from the days when doctors made housecalls by horse and buggy and anesthesia was a bullet between the teeth.

We live in a world that is expanding as rapidly as the most advanced technology. New

invention? We thrive on it. Technology and the health care innovators who use it are driving this industry to ever-new discoveries, to solutions we never dreamed of in horse and buggy days.

We will be there tomorrow.

As long as you get sick. . . With well over a million Californians employed in Health Services at this time (that's almost ten percent of California workers), and another two hundred thousand expected to join in the next ten years, this industry will offer opportunities for years to come.

Many of us will be found in new work environments:

- Health-related Biotech is an exciting, cutting edge, rapidly growing field.



- Home health services and less traditional health practitioners are small but rapidly growing fields.
- And if you like to exercise, or just like to be around



sweat, the physical fitness craze shows no signs of slowing down.

Most of us work in hospitals at some point in our health services careers. After all, about 40 percent of current employees do. As the table shows, hospitals are the single biggest part of the Health Services industry. They are, however, growing more slowly than any other part. This reflects three trends within the industry:

- Increased focus on wellness and preventing illness.
- Increasing ability to perform procedures requiring little or no hospitalization because of advances in technology.
- Stronger aftercare programs that allow patients to return home more quickly after hospitalization.

Workplace Size and Expected Growth

<i>In California</i>	<i>Employees</i>	<i>% of Total</i>	<i>% Growth Next 10 Years</i>
Total Health Service Workforce	1,112,116	100	24
Doctors' Offices	200,779	18	26
Other Health Practitioners	48,042	4	27
Nursing And Personal Care	122,704	11	27
Hospitals	429,537	39	19
Medical Labs	19,036	2	26
Home Health Care	27,742	2	35
Other Health Services	28,428	3	28
Dentists' Offices	84,375	8	27
Dental Labs	5,828	1	29
Drugs	25,383	2	22
Drug Stores	63,155	6	28
Physical Fitness	26,226	2	33
Sports & Recreation Clubs	30,881	3	36
Human Biotech	<i>Not reported separately</i>		+++

See the Employment Development Department's Labor Market Information website <http://www.calmis.ca.gov> for more information.



But . . . would I really fit?

A most excellent question. When considering careers, think first about what kinds of things fascinate you, what kinds of things excite you, what kinds of things you are good at, and what kinds of things are you praised for? What kinds of things would you do even if no one praised you for them?

Then consider a future in health services: select some jobs that seem attractive and study them.

Some questions to ask yourself as you study: What would I do during the day? Am I helping people? In what ways is helping people in health services rewarding? In what ways is it challeng-

ing? Or am I more fascinated with the science of the human organism? Unraveling its mysteries. Solving its puzzles.

What are the working conditions? Are the settings comfortable? Are the hours regular? Is that important?

What's the pay range? Do I work alone? In groups? Teams? Are people skills important? Is the work fast paced? Am I able to advance in my career without a lot of difficulty? Or do I need more training? Is it easy or difficult to find jobs in the industry? Can I move easily geographically?



Will I be excited and challenged?

Will I be motivated to grow, to learn new things?

Will I be fascinated?

How do I get started?

You start with you. You think about your own skills, knowledge, and abilities. Then you think about the skills, knowledge, and abilities required for different jobs in health services. (You'll be looking at these two combinations the rest of your work life.)

Start with abilities. The things you do well naturally. Do you enjoy gathering information to answer a question or solve a problem? Or do you enjoy working with, being around, and helping people? Or do you like making things work?

Any answers? Take a look at the chart below. See if you can find some interesting possibilities. Select a few. Go to the Internet and do a search on a few. Write down what you've learned and what you'd still like to know. Seek out two or three people

who work in the occupation and get a first hand description of what their lives are like and how they got to where they are. And ask your guidance counselor how you can get involved in School to Career's Job Shadowing and Mentoring programs.

Which Health Services Jobs Would You Want?

If You Like Working Primarily with ...

Required Years of Training:	Information?	People?	Things?
Less than 2 Years	<ul style="list-style-type: none"> Medical Insurance Clerk Pharmacy Aide Medical Office Secretary 	<ul style="list-style-type: none"> Home Health Aide Personal and Home Care Aide Nurse Aide/Assistant Physical Therapy Aide Certified Nursing Assistant Optometry Assistant Medical Assistant 	<ul style="list-style-type: none"> Dental Laboratory Assistant Laboratory Assistant
2 Years	<ul style="list-style-type: none"> Cardiology Technologist Holter Scanning Technician Medical Records Technician Medical Transcriber Nuclear Medicine Technologist Perfusionist Pharmacy Technician Respiratory Therapist Radiology Technologist 	<ul style="list-style-type: none"> Licensed Vocational Nurse Physical Therapy Assistant Dental Hygienist Emergency Medical Tech Paramedic 	<ul style="list-style-type: none"> Operating Room Technician Dental Lab Technician
4 or More Years	<ul style="list-style-type: none"> Nurse Anesthetist Physician (Research) Hospital Administrator Histopathologist Immunohematologist Medical Insurance Specialist Medical Records Administrator Pharmacist 	<ul style="list-style-type: none"> Fitness/Wellness Coordinator Nurse Practitioner Registered Nurse Physical Therapist Dentist Physician (General Practice) Infertility Specialist Emergency Medicine Specialist Physician Assistants Nurse, Infection Control Hospice Administrator 	<p><i>Note: All jobs require working with things. For most professional jobs, however, using information effectively or interacting with people are more important requirements of the jobs.</i></p>

Can't get by on just my abilities, huh . . . ?

Knowledge, education, and training do the trick.

The preceding chart gives you an idea of how much you'll have to educate yourself to get the knowledge you'll need. The higher the starting job in health services, the more knowledge you'll need.

Many professional level jobs require completion of postgraduate studies in medicine or dentistry,

or in business administration, or the physical sciences, and then, internships and residencies in specialized medical fields. If you're fascinated by these areas, prepare yourself well, go after scholarships and student loans to ease financial burdens.



Can I learn this around here?

There are a lot of places to get training and education in Health Services occupations in California.

Twenty-three universities provide bachelor's degrees in nursing and seven have master's programs. In addition, more than seventy schools have associate degree programs. For more information, including the names of resources in your area, call the State Board of Registered Nursing (916) 322-3350, the State Board of Osteopathy (916) 263-3100, or check out the Internet Websites below:

California Schools	
<i>Type of School</i>	<i>Number of Schools</i>
Medical & Osteopathic Schools	11
4-Year, College level and above	335
2-Year, Technical & Community Colleges	231
Hospital or Health Programs, Private Business & Technical Schools, Public Adult Schools with Occupational Programs	1,728
Public Secondary, Job Training Partnership, Apprenticeship, Regional Occupational Programs, Other	386

For more information, visit these websites:

- Enhanced State Training Inventory links to training programs throughout California <http://www.solcc.ca.gov>
- America's Career InfoNet links to a lot of state information including California Colleges and Universities <http://www.acinet.org/acinet>
- California Psychiatric Association links to Medical Schools <http://www.calpsych.org/umr.html>

So, now I'm ready...?

You're through school? Then, yes! You're ready to take your abilities and your knowledge and apply them to the job.

That's skill development, something you'll be doing for the rest of your life. What kinds of skills are important to researching DNA, to other health services jobs? The list below should give you something to think about. How would you combine your natural abilities with knowledge to get better and better at these skills?

Important Skills for EVERYONE in Health Services: Communication is key.

Reading Comprehension	Understanding written sentences and paragraphs in work related documents
Active Listening	Listening to what other people are saying and asking questions that are appropriate
Speaking	Talking to others to convey information effectively
Information Gathering	Knowing how to find information and identifying essential information
Information Organization	Finding ways to structure or classify multiple pieces of information
Writing	Communicating effectively with others in writing as indicated by the needs of the audience
Problem Identification	Identifying the nature of the problem

Important Skills for ENTRY LEVEL Jobs: People skills are key.

Service Orientation	Actively looking for ways to help people
Social Perceptiveness	Being aware of others' reactions and understanding why they react the way they do
Coordination	Adjusting actions in relation to others' actions

Important Skills for TECHNICAL Jobs: Technical precision is key.

Monitoring	Assessing how well one is doing when learning or doing something
Mathematics	Using mathematics to solve problems
Operation and Control	Controlling operations of equipment and systems

Important Skills for PROFESSIONAL Jobs: Problem solving is key.

Science	Using scientific methods to solve problems
Critical Thinking	Using logic and analysis to identify the strengths and weaknesses of different approaches
Judgment and Decision Making	Weighing the relative costs and benefits of a potential action
Coordination	Adjusting actions in relation to others' actions

Can I find a job easily? Will I be secure? Does it pay well?

Yes to all of these, with a few exceptions. Most jobs within this industry are fairly easy to find because the demand for qualified people is high.

Physicians' median income is currently above \$150,000 and average income is close to \$200,000. Specialists earn significantly more than general practitioners. Generally, income level is tied to training and education. Do your own search on the Internet for your special interest area.

An interesting fact that may affect your sense of security: physicians have been self-employed historically, but recent trends toward managed care are changing that. According to the American Medical Association, more and more physicians are becoming employees, and physicians as employees currently account for about 40% of total doctors.

The Health Services industry provides better benefits than many industries, in part because the benefits most often offered by employers are health related benefits. The Health Services industry is in a good position to offer them.

Wages, Benefits, and Demand for Selected Health Services Jobs

California Jobs	Median Hourly Wages			Benefits ¹		Demand ²	
	New Inexperienced	New Experienced	3 Years with Firm	Fulltime	Parttime	Experienced	Inexperienced
Entry Level	\$	\$	\$	%	%	%	%
Dental Assistants	8.00	10.00	12.50	55+	10+	65	60
Medical & Clinical Lab Assistants	8.40	9.00	10.49	75+	30+	58	43
Medical Assistants	7.00	8.50	10.00	50+	10+	55	55
Nurse Aides	6.12	6.50	7.55	75+	30+	65	50
Physical Therapy Aides	6.50	7.95	9.50	50+	15+	45	28
Technical Level							
Bio-Tech Research Assistants	10.00	12.47	14.86	65+	5+	50	45
Dental Hygienists	30.00	31.25	34.38	35+	10+	66	62
Licensed Vocational Nurses	11.00	12.28	13.75	75+	30+	47	37
Pharmacy Technicians	8.00	9.69	11.76	65+	15+	54	46
Physical Therapy Assistants	12.00	13.47	16.00	65+	15+	61	52
Radiologic Technologists	13.00	14.50	16.00	70+	30+	35	49
Surgical Technicians	10.07	12.50	14.92	85+	30	57	52
Professional Level							
Biological Scientists	12.94	17.65	21.57	85+	10+	42	36
Medical/Clinical Lab Technologists	15.00	17.00	20.00	75+	30	35	42
Physical Therapists	20.14	23.00	25.90	70+	20+	60	50
Physicians' Assistants	26.15	29.00	32.60	55+	10+	54	78
Recreation Workers	6.25	7.19	9.00	65+	15+	45	28
Registered Nurses	15.00	17.00	19.47	85+	35+	62	52
Respiratory Care Practitioners	12.00	14.25	16.61	90+	60+	47	30

1) Benefits: Percent of employers offering Medical, Dental, Sick Leave, and Vacation benefits.

2) Demand: Percent of employers saying they have a somewhat or very difficult time finding candidates.

Who's Hiring?

Can't tell you that specifically. But we can tell you how many Health Service employers there are in the State, as shown below. Consult your regional publication in this series to find out how many there are in your county.

Here are a few ways to find out who's hiring:

- Consult your local resources for leads. Check your local hospital. Use the local health services directories.
- Ask your family doctor or dentist. Or one of the other Health Services professionals who have served you in the past. They'll be very happy to help guide a potential future colleague.
- Explore the Internet sites below for a great series of links that'll take you almost anywhere.

Plan well, and good fortune to you!

California Employers

Workplace	Number of Employers
Total Health Services	65,210
Doctors' Offices	24,813
Other Health Practitioners	11,302
Nursing and Personal Care	1,461
Hospitals	1,598
Medical Labs	961
Home Health Care	1,041
Other Health Services	1,360
Dentists' Offices	15,420
Dental Labs	1,068
Drugs	346
Drug Stores	3,738
Physical Fitness	1,032
Sports and Recreation Clubs	1,070
Human Biology	Not Reported Separately



For more information, visit these websites:

California Occupational Information Coordinating Committee links to many resources

<http://www.soicc.ca.gov>

Employment Development Department links to STC, CalJOBS, and America's Job Bank

<http://www.edd.ca.gov>

California State Personnel Board links to various government job sites

<http://www.spb.ca.gov/jobs.htm>

Industry Background: The California Trade and Commerce Agency

<http://commerce.ca.gov/california/economy/profiles>

Emerging BioTech Industry:

The University of California, Berkeley
<http://www.biotech.berkeley.edu/CABioStory/californ.html>

The University of California, San Diego
<http://biochemgen.ucsd.edu/>

Physicians • Pharmacists • Radiologic Technologist • Otitis Media Technologist • Physicians • Nuclear Medicine Technologist • Nurse Practitioners • Phys
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 ing and Measuring

About the Data: Industries in this and other Career Opportunities reports reflect the California Department of Education's selection of Standard Industrial Classifications (SIC) that would provide the best overall picture of an industry to students, guidance counselors, and parents. Some classifications have been assigned to more than one 'industry group' because the classifications have direct relevance to more than one 'industry.' For example, data for Physical Fitness Facilities are included both in the Health Services and in the Hospitality, Tourism, and Recreation publications.

Data are drawn from:

- *Workplace Size and Expected Growth* (page 2) and *California Employers* (page 8): the Employment Development Department (EDD) Labor Market Information Division (LMID) Employment Statistics (ES) 202. Counts and percentages are from the 3rd Quarter of 1997. Projections of Growth are from 1995 ES 202 Data. Percentages may not add to 100 due to rounding.
- *Which Health Services Jobs Would You Want* (page 4) and the information regarding skills: Dictionary of Occupational Titles (DOT), Occupational Information Network (O*NET), and the Department of Labor.
- *California Schools* (page 5): the Enhanced State Training Inventory and the State Boards of Registered Nursing (916-322-1700) and of Osteopathy (916-263-3100). Counts are approximate and include multiple sites of the same provider.
- *Wages, Benefits, and Demand for Selected Health Services Jobs* (page 7): EDD LMID California Cooperative Occupational Information System (CCOIS) Occupational Summaries, 1995-1997. Wages for jobs having union and non-union employees are reported for whichever of the two show higher wage levels. In many cases, however, the differences between union and non-union wages are small. Wages reflect periods having different minimum wages. A median wage is the middle point in a range of wages.

Physicians • Nuclear Medicine Technologist • Nurse Practitioners • Physician Assistants • Lab Technologists • Health Information Management - Administrati
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